

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**CAMERON LNG, LLC**  
**CAMERON LNG FACILITY**  
**PROPOSED PART 70 AIR OPERATING PERMIT MODIFICATION**

The LDEQ, Office of Environmental Services, is accepting written comments on a proposed Part 70 air operating permit modification for Cameron LNG, LLC, P.O. Box 349 Hackberry, Louisiana 70645-0349 for the Cameron LNG Facility. **The facility is located at 301 N Main Street in Hackberry, Cameron Parish.**

Cameron LNG, LLC requested a permit modification for Cameron LNG Facility. The Cameron LNG Facility will import, store, and vaporize liquefied natural gas (LNG) for supply to the U.S. natural gas markets.

Liquefied Natural Gas will be received from marine tankers that will berth at the terminal's unloading dock. LNG will be transferred from the marine vessels into low pressure tanks for storage, then regasified using submerged combustion vaporizers. The vaporized natural gas will be measured and sent to transmission pipelines. Any natural gas that exceeds the interstate Btu content limits will be processed in a natural gas liquids recovery unit to remove a portion of the higher Btu components to meet specifications.

With this modification for an expansion, Cameron LNG proposes to add eight additional Submerged Combustion Vaporizers, two hot water heaters, three emergency diesel fire water pumps, two emergency river water pumps, and two emergency diesel generators. An additional LNG storage tank will be added as well.

With this expansion, the facility will be able to vaporize 2.65 billion standard cubic feet per day of liquefied natural gas (LNG). The facility currently operates under Permit No. 0560-00184-V2, dated June 28, 2006.

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM <sub>10</sub>	34.57	72.68	+38.11
SO <sub>2</sub>	2.80	13.56	+10.76
NO <sub>x</sub>	237.74	477.18	+239.44
CO	185.16	335.77	+150.61
VOC	25.17	52.81	+27.64

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Tuesday, May 20, 2008.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, proposed Part 70 air operating permit modification, statement of basis and the environmental impact questions are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at [www.deq.louisiana.gov](http://www.deq.louisiana.gov).**

An additional copy may be reviewed at Cameron Parish Library, 498 Marshall Street, Cameron, LA.

Inquiries or requests for additional information regarding this permit action should be directed to Jada Lewis, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-0034.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [deqmailistrequest@la.gov](mailto:deqmailistrequest@la.gov) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit and statement of basis** can be viewed at the LDEQ permits public notice webpage at [www.deq.louisiana.gov/apps/pubNotice/default.asp](http://www.deq.louisiana.gov/apps/pubNotice/default.asp) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.doa.louisiana.gov/oes/listservpage/ldeq\\_pn\\_listserv.htm](http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number 99407, Permit Number 0560-00184-V3, and Activity Number PER20060002.**

Publication date: April 18, 2008

Certified Mail No.

Activity No.: PER20060002

Agency Interest No. 99407

Mr. William Keller  
Vice President  
Cameron LNG, LLC  
101 Ash Street  
San Diego, CA 92101

RE: Part 70 Operating Permit, Cameron LNG LLC - Cameron LNG Facility  
Cameron LNG LLC, Hackberry, Cameron Parish, Louisiana

Dear Mr. Keller:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_ of \_\_\_\_\_, 2013, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

Permit No.: 0560-00184-V3

Sincerely,

Cheryl Sonnier Nolan  
Assistant Secretary  
CSN:ndl

c: EPA Region VI

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Cameron LNG LLC - Cameron LNG Facility  
Agency Interest No.: 99407  
Cameron LNG LLC  
Hackberry, Cameron Parish, Louisiana**

**I. Background**

Cameron LNG LLC, a wholly owned subsidiary of Sempra Energy International, is expanding the Cameron LNG Facility for the unloading of LNG. The facility is located at 301 North Main Street, Hackberry, Cameron Parish. The Cameron LNG Facility received its initial Part 70 Operating Permit No. 0560-00184-V0 on October 6, 2003. Due to design changes during construction, Permit No. 0560-00184-V1 was issued on October 3, 2005. The current permit is 0560-00184-V2, dated June 28, 2006.

This is the Part 70 operating permit for the facility.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by Cameron LNG LLC on July 26, 2006 requesting a Part 70 operating permit modification. Additional information dated August 27, 2007 and March 27, 2008 were also received.

**III. Description**

The Cameron LNG facility will import, store, and vaporize LNG for supply to the U.S. natural gas markets. Liquefied natural gas will be received from marine tankers that will berth at the terminal's unloading dock. LNG will be transferred from the marine vessels into low pressure tanks for storage, then regasified using submerged combustion vaporizers. The vaporized natural gas will be measured and sent to transmission pipelines. Any natural gas that exceeds the interstate Btu content limits will be processed in a natural gas liquids recovery unit to remove a portion of the higher Btu components to meet specifications.

With this modification for the expansion, the facility will be able to vaporize 2.65 billion standard cubic feet per day of liquefied natural gas (LNG). Cameron LNG proposes to add eight additional Submerged Combustion Vaporizers, one LNG storage tank, two hot water heaters, three emergency diesel fire water pumps, two emergency river water pumps, and two emergency diesel generators. The emission generating equipment at the facility will consist of four storage tanks, eighteen submerged combustion vaporizers, three hot oil heaters, two fuel gas heaters, three hot water heaters, two emergency generators, three fire water pumps, two river water pumps, one emergency flare, and fugitive emissions.

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Cameron LNG LLC - Cameron LNG Facility**

**Agency Interest No.: 99407**

**Cameron LNG LLC**

**Hackberry, Cameron Parish, Louisiana**

Cameron LNG is an existing minor source with respect to the Prevention of Significant Deterioration Program (PSD) due to the determination the submerged combustion vaporizers are not fossil fuel boilers. Because the expansion project does not constitute a major source in and of itself, PSD does not apply.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	34.57	72.68	+38.11
SO <sub>2</sub>	2.80	13.56	+10.76
NO <sub>X</sub>	237.74	477.18	+239.44
CO	185.16	335.77	+150.61
VOC *	25.17	52.81	+27.64

LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Benzene	0.01	0.03	+0.02
Formaldehyde	0.34	0.75	+0.41
n-Hexane	8.17	0.02	-8.15
Toluene	0.02	0.05	+0.03
Xylene (mixed isomers)	<0.001	0.01	+0.01
1,3 Butadiene	-	0.01	+0.01
Total	8.54	0.87	-7.65

Other VOC (TPY): 51.94

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**Cameron LNG LLC - Cameron LNG Facility**

**Agency Interest No.: 99407**

**Cameron LNG LLC**

**Hackberry, Cameron Parish, Louisiana**

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations. National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply. Prevention of Significant Deterioration (PSD) does not apply because the expansion project is below the 250 tpy threshold.

New Source Performance Standards (NSPS) Subpart Db and Subpart IIII do apply to this facility.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2008; and in the <local paper>, <local town>, on <date>, 2008. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

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AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

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Hackberry, Cameron Parish, Louisiana**

**VII. Effects on Ambient Air**

Dispersion Model(s) Used: <None>

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})

**VIII. General Condition XVII Activities**

Work Activity	Schedule	PM <sub>10</sub>	Emission Rates - tons			
			SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC
-	-	-	-	-	-	-

**IX. Insignificant Activities**

ID No.:	Description	Citation
		Insignificant Activity per LAC 33:III.501.B.5.A.3.
	Diesel Tanks (3)	A.3
	Caustic Tank	A.10

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Cameron LNG LLC - Cameron LNG Facility  
 Agency Interest No.: 99407  
 Cameron LNG LLC  
 Hackberry, Cameron Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																	
		5▲	509	9	11	13	15	2103	2104*	2107	2111	2115	2116*	2113	22	29*	51*	53*	56
	Plant Wide	1	1													3	1	3	
EU01A	Submerged Combustion Vaporizer			1	1	2													
EU01B	Submerged Combustion Vaporizer			1	1	2													
EU01C	Submerged Combustion Vaporizer			1	1	2													
EU01D	Submerged Combustion Vaporizer			1	1	2													
EU01E	Submerged Combustion Vaporizer			1	1	2													
EU01F	Submerged Combustion Vaporizer			1	1	2													
EU01G	Submerged Combustion Vaporizer			1	1	2													
EU01H	Submerged Combustion Vaporizer			1	1	2													
EU01I	Submerged Combustion Vaporizer			1	1	2													
EU01J	Submerged Combustion Vaporizer			1	1	2													
EU01K	Submerged Combustion Vaporizer			1	1	2													
EU01L	Submerged Combustion Vaporizer			1	1	2													
EU01M	Submerged Combustion Vaporizer			1	1	2													
EU01N	Submerged Combustion Vaporizer			1	1	2													
EU01O	Submerged Combustion Vaporizer			1	1	2													
EU01P	Submerged Combustion Vaporizer			1	1	2													

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter																		
		5▲	509	9	11	13	15	2103	2104*	2107	2111	2115	2116*	2113	22	29*	51*	53*	56	59*
EU01Q	Submerged Combustion Vaporizer			1	1	2														
EU01R	Submerged Combustion Vaporizer			1	1	2														
EU02A	Hot Oil Heater			1	1															
EU02B	Hot Oil Heater			1	1															
EU02C	Hot Oil Heater			1	1															
EU03A	Fuel Gas Heater			1	1															
EU03B	Fuel Gas Heater			1	1															
EU04	Flare Pilots			1												1				
EU05A	Emergency Generator				1															
EU05B	Emergency Generator					1														
EU07	Fugitive Emissions																			
EU08A	Hot Water Heater					1	1													
EU08B	Hot Water Heater					1	1													
EU011A	Emergency Diesel Fire Water Pump					1	1	2												
EU011B	Emergency Diesel Fire Water Pump					1	1	2												
EU011C	Emergency Diesel Fire Water Pump					1	1	2												
EU12A	Emergency Diesel River Water Pump					1	1	2												
EU12B	Emergency Diesel River Water Pump					1	1	2												

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

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**Hackberry, Cameron Parish, Louisiana**

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- 1    - The regulations have applicable requirements that apply to this particular emission source.  
      - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2    - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3    - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Cameron LNG LLC - Cameron LNG Facility**  
**Agency Interest No.: 99407**  
**Cameron LNG LLC**  
**Hackberry, Cameron Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR		
		A	K	Ka	Kb	Db	Dc	GG	KKK	III	A	J	V	A	HH	SS	VV	HHH	64	68		
EU01A	Plant Wide	1								1												
EU01A	Submerged Combustion Vaporizer										3											
EU01B	Submerged Combustion Vaporizer										3											
EU01C	Submerged Combustion Vaporizer										3											
EU01D	Submerged Combustion Vaporizer										3											
EU01E	Submerged Combustion Vaporizer										3											
EU01F	Submerged Combustion Vaporizer										3											
EU01G	Submerged Combustion Vaporizer										3											
EU01H	Submerged Combustion Vaporizer										3											
EU01I	Submerged Combustion Vaporizer										3											
EU01J	Submerged Combustion Vaporizer										3											
EU01K	Submerged Combustion Vaporizer										3											
EU01L	Submerged Combustion Vaporizer										3											
EU01M	Submerged Combustion Vaporizer										3											
EU01N	Submerged Combustion Vaporizer										3											
EU01O	Submerged Combustion Vaporizer										3											
EU01P	Submerged Combustion Vaporizer										3											
EU01Q	Submerged Combustion Vaporizer										3											

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

Cameron LNG LLC - Cameron LNG Facility

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ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR	
		A	K	Ka	Kb	D <sub>b</sub>	D <sub>c</sub>	GG	KKK	III	A	J	V	A	HH	SS	VV	HHH	64	68	
EU01R	Submerged Combustion Vaporizer																				
EU02A	Hot Oil Heater																				
EU02B	Hot Oil Heater	1																			
EU02C	Hot Oil Heater	1																			
EU03A	Fuel Gas Heater	1																			
EU03B	Fuel Gas Heater																				
EU04	Flare Pilots																				
EU05A	Emergency Generator	1																			
EU05B	Emergency Generator	1																			
EU07	Fugitive Emissions																				
EU08A	Hot Water Heater	1																			
EU08B	Hot Water Heater	1																			
EU011A	Emergency Diesel Fire Water Pump	1																			
EU011B	Emergency Diesel Fire Water Pump	1																			
EU011C	Emergency Diesel Fire Water Pump	1																			
EU12A	Emergency Diesel River Water Pump	1																			
EU12B	Emergency Diesel River Water Pump	1																			

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Cameron LNG LLC - Cameron LNG Facility  
Agency Interest No.: 99407  
Cameron LNG LLC  
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### KEY TO MATRIX

- 1    -The regulations have applicable requirements that apply to this particular emission source.  
      -The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
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Cameron LNG LLC - Cameron LNG Facility  
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 Hackberry, Cameron Parish, Louisiana

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
Entire Facility	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III. Chapter 51]	DOES NOT APPLY. Cameron LNG is not a major source of toxic air pollutants.
	40 CFR 68 Chemical Accident Prevention	DOES NOT APPLY. The provisions of Section 112(r) do not apply to storage incidents due to transportation.
	LAC 33:III. Chapter 59 Chemical Accident Prevention Program	DOES NOT APPLY. The provisions of this chapter do not apply to storage incidents due to transportation.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EU01A-EU01R	Emission Standards for Sulfur Dioxide Recordkeeping and Reporting [LAC 33:III.1503]	EXEMPT. Units emit less than 250 tons of SO <sub>2</sub> per year. Record and retain at the site for at least 2 years the data required to demonstrate compliance with or exemption from SO <sub>2</sub> standards of Chapter 15. Compliance data shall be reported annually in accordance with LAC 33:III.918.
EU02A-EU02C		
EU05A-EU05B		
EU11A-EU11C		
EU12A-EU12B		

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EU05A- EU05B	Emission Standards for Particulate Matter [LAC 33:III.1313]	DOES NOT APPLY.  Primary purpose is not indirect heating.
EU11A- EU11C		
EU12A- EU12B		
EU01A- EU01R	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60, Subpart Db]	DOES NOT APPLY. The submerged combustion vaporizers are not fossil fuel steam generating units as defined under 40 CFR 60.41(b).

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

## 40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

## 40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  - 5. changes in emissions would not qualify as a significant modification; and
  - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

## 40 CFR PART 70 GENERAL CONDITIONS

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

## **40 CFR PART 70 GENERAL CONDITIONS**

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated July 26, 2006 along with supplemental information August 27, 2007 and March 27, 2008.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
2. Report by September 30 to cover April through June
3. Report by December 31 to cover July through September
4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 99407 Cameron LNG LLC - Cameron LNG Facility  
 Activity Number: PER20060002  
 Permit Number: 0560-00184-V3  
 Air - Title V Regular Permit Major Mod

Also Known As:	ID	Name	User Group	Start Date
	0560-00184	Dynegy Midstream Services LP - Hackberry LPG Terminal	Air Permitting	06-30-2002
	76-2386656	Cameron LNG LLC	Air Permitting	04-22-2003
	LAD980875587	Cameron LNG LLC - Cameron LNG Facility	CDS Number	06-06-2002
	LA0123145	Federal Tax ID	Federal Tax ID	11-21-1999
	LAG670091	Cameron LNG LLC	Hazardous Waste Notification	12-06-2007
	LAR10C554	LPDES #	LPDES Permit #	09-17-2007
	LAR10D143	LPDES #	LPDES Permit #	06-29-2007
	107936	Hackberry LNG Terminal - Construction Project	TEMPO Merge	08-23-2004
	130088	Cameron LNG Project - Aker Kværner / IHI	TEMPO Merge	09-09-2005
	31786	Cities Service Co - Hackberry LPG Facilities & Dock	TEMPO Merge	03-08-2004
	5174	Oxy Ngl Inc - Hackberry Terminal	TEMPO Merge	04-02-2002
	52112	Dynegy Midstream Services LP - Hackberry LPG Terminal	TEMPO Merge	03-08-2004
	WQC 020809-08	Water Quality Certification #	Water Certification	03-12-2003
		Trident NGL - Hackberry Terminal	Water Permitting	08-25-1999
Physical Location:		301 N Main St Hackberry, LA 70645	Main FAX: 6196962911  Main Phone: 3377623224	
Mailing Address:		PO Box 349 Hackberry, LA 70645-0349		
Location of Front Gate:		30° 2' 18" latitude, 93° 20' 23" longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27		
Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Jude M. Comeaux	200 Dulles Dr Lafayette, LA 70506	3372663258 (WP)	Water Certification Contact for
	William Keller	101 Ash St San Diego, CA 92101	6196962932 (WP)	Responsible Official for
	Mike Meyers	PO Box 349 Hackberry, LA 70645	3377623224 (WP)	Haz. Waste Billing Party for
	Jay Morris	2500 City West Blvd Ste 1800 Houston, TX 77042	jdmorris@sempragic	Air Permit Contact For
	Jay Morris	2500 City West Blvd Ste 1800 Houston, TX 77042	7132985479 (WP)	Air Permit Contact For
	Jay Morris	2500 City West Blvd Ste 1800 Houston, TX 77042	7132985479 (WP)	Emission Inventory Contact for
	Jay Morris	3600 Briarpark Dr Houston, TX 77042	jdmorris@sempragic	Emission Inventory Contact for
	Dane A. Osborn		7132702681 (WP)	Water Permit Contact For

General Information

AI ID: 99407 Cameron LNG LLC - Cameron LNG Facility

Activity Number: PER20060002

Permit Number: 0560-00184-V3

Air - Title V Regular Permit Major Mod

Related Organizations:	Name	Address	Phone (Type)	Relationship
Aker Kværner / IHI	3600 Briarpark Dr Houston, TX 77042			Water Billing Party for
CK Associates Inc	17170 Perkins Rd Baton Rouge, LA 70810	2257537756 (WP)		Provides environmental services for
Cameron LNG LLC	101 Ash St HQO1H San Diego, CA 921013017	6196962911 (WF)	Owns	
Cameron LNG LLC	101 Ash St HQO1H San Diego, CA 921013017	61969629559 (WP)	Owns	
Cameron LNG LLC	101 Ash St HQO1H San Diego, CA 921013017	61969629559 (WP)	Emission Inventory Billing Party	
Cameron LNG LLC	101 Ash St HQO1H San Diego, CA 921013017	61969629559 (WP)	Operates	
Cameron LNG LLC	101 Ash St HQO1H San Diego, CA 921013017	61969629559 (WP)	Air Billing Party for	
Cameron LNG LLC	101 Ash St HQO1H San Diego, CA 921013017	6196962911 (WF)	Air Billing Party for	
Cameron LNG LLC	101 Ash St HQO1H San Diego, CA 921013017	6196962911 (WF)	Operates	
Cameron LNG LLC	101 Ash St HQO1H San Diego, CA 921013017	6196962911 (WF)	Emission Inventory Billing Party	
Hackberry LNG Terminal LLC	1000 Louisiana St Ste 5800 Houston, TX 77002	7135073843 (WF)	Supplies Material to	
John E Chance Land Surveys Inc	200 Dulles Dr Lafayette, LA 70506	3182683258 (WP)	Provides environmental services for	

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

**AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility**  
**Activity Number: PER2006002**  
**Permit Number: 0560-00184-V3**  
**Air - Title V Regular Permit Major Mod**

## Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Cameron LNG Facility</b>						
EQT0001	EU01A - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0002	EU01B - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0003	EU01C - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0004	EU01D - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0005	EU01E - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0006	EU01F - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0007	EU01G - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0008	EU01H - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0009	EU01I - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0010	EU01J - Submerged Combustion Vaporizer		108.6 MM BTU/hr	108.6 MM BTU/hr		8,760 hr/yr (All Year)
EQT0013	EU02A - Hot Oil Heater		108.6 MM BTU/hr	108.6 MM BTU/hr		8,760 hr/yr (All Year)
EQT0014	EU02B - Hot Oil Heater		108.6 MM BTU/hr	108.6 MM BTU/hr		8,760 hr/yr (All Year)
EQT0015	EU02C - Hot Oil Heater		3.8 MM BTU/hr	3.8 MM BTU/hr		8,760 hr/yr (All Year)
EQT0016	EU03A - Fuel Gas Heater		.1 MM BTU/hr	.1 MM BTU/hr		8,760 hr/yr (All Year)
EQT0017	EU04 - Flare Pilots		2112 horsepower	2112 horsepower		104 hr/yr (All Year)
EQT0020	EU05A - Emergency Generator		3.8 MM BTU/hr	3.8 MM BTU/hr		8,760 hr/yr (All Year)
EQT0021	EU03B - Fuel Gas Heater (standby)		2112 horsepower	2112 horsepower		104 hr/yr (All Year)
EQT0022	EU05B - Emergency Generator		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0023	EU01K - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0024	EU01L - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0025	EU01M - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0026	EU01N - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0027	EU01O - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0028	EU01P - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0029	EU01Q - Submerged Combustion Vaporizer		120 MM BTU/hr	120 MM BTU/hr		8,760 hr/yr (All Year)
EQT0030	EU01R - Submerged Combustion Vaporizer		175 MM BTU/hr	175 MM BTU/hr		8,760 hr/yr (All Year)
EQT0031	EU08A - Hot Water Heater		175 MM BTU/hr	175 MM BTU/hr		8,760 hr/yr (All Year)
EQT0032	EU08B - Hot Water Heater		320 horsepower	320 horsepower		104 hr/yr (All Year)
EQT0033	EU11A - Emergency Fire Water Pump		320 horsepower	320 horsepower		104 hr/yr (All Year)
EQT0034	EU11B - Emergency Fire Water Pump		320 horsepower	320 horsepower		104 hr/yr (All Year)
EQT0035	EU11C - Emergency Fire Water Pump		320 horsepower	320 horsepower		104 hr/yr (All Year)
EQT0036	EU12A - Emergency River Water Pump		146 horsepower	146 horsepower		104 hr/yr (All Year)
EQT0037	EU12B - Emergency River Water Pump		146 horsepower	146 horsepower		104 hr/yr (All Year)
FUG0001	EU07 - Fugitive Emissions					8,760 hr/yr (All Year)

Stack Information:	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Cameron LNG Facility	EU01A - Submerged Combustion Vaporizer	28	23192	4.17		43	79

**INVENTORIES**

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility  
 Activity Number: PER2006002  
 Permit Number: 0560-00-184-V3  
 Air - Title V Regular Permit Major Mod

**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Cameron LNG Facility</b>							
EQT0002	EU01B - Submerged Combustion Vaporizer	28	23192	4.17		43	79
EQT0003	EU01C - Submerged Combustion Vaporizer	28	23192	4.17		43	79
EQT0004	EU01D - Submerged Combustion Vaporizer	28	23192	4.17		43	79
EQT0005	EU01E - Submerged Combustion Vaporizer	28	23192	4.17		43	79
EQT0006	EU01F - Submerged Combustion Vaporizer	28	23192	4.17		43	79
EQT0007	EU01G - Submerged Combustion Vaporizer	28	23192	4.17		43	79
EQT0008	EU01H - Submerged Combustion Vaporizer	28	23192	4.17		43	79
EQT0009	EU01I - Submerged Combustion Vaporizer	28	23192	4.17		43	79
EQT0010	EU01J - Submerged Combustion Vaporizer	28	23192	4.17		43	79
EQT0013	EU02A - Hot Oil Heater	60	45240	4		50	400
EQT0014	EU02B - Hot Oil Heater	60	45240	4		50	400
EQT0015	EU02C - Hot Oil Heater	60	45240	4		50	400
EQT0016	EU03A - Fuel Gas Heater			10.28		113.8	250
EQT0021	EU03B - Fuel Gas Heater (standby)			10.28		113.8	250
EQT0023	EU01K - Submerged Combustion Vaporizer	30.4	24864	4.17		43	79
EQT0024	EU01L - Submerged Combustion Vaporizer	30.4	24864	4.17		43	79
EQT0025	EU01M - Submerged Combustion Vaporizer	30.4	24864	4.17		43	79
EQT0026	EU01N - Submerged Combustion Vaporizer	30.4	24264	4.17		43	79
EQT0027	EU01O - Submerged Combustion Vaporizer	30.4	24864	4.17		43	79
EQT0028	EU01P - Submerged Combustion Vaporizer	30.4	24864	4.17		43	79
EQT0029	EU01Q - Submerged Combustion Vaporizer	30.4	24864	4.17		43	79
EQT0030	EU01R - Submerged Combustion Vaporizer	30.4	24864	4.17		43	79
EQT0031	EU08A - Hot Water Heater	49	46718	4.5		150	275
EQT0032	EU08B - Hot Water Heater	49	46718	4.5		150	275
EQT0033	EU11A - Emergency Fire Water Pump	246	725	.25		10	725
EQT0034	EU11B - Emergency Fire Water Pump	246	725	.25		10	725
EQT0035	EU11C - Emergency Fire Water Pump	246	725	.25		10	725
EQT0036	EU12A - Emergency River Water Pump	246	725	.25		10	725
EQT0037	EU12B - Emergency River Water Pump	246	725	.25		10	725

Relationships:

INVENTORIES

**AI ID:** 99407 - Cameron LNG LLC - Cameron LNG Facility  
**Activity Number:** PER20060002  
**Permit Number:** 0560-00184-V3  
**Air - Title V Regular Permit Major Mod**

**Subject Item Groups:**

ID	Group Type	Group Description
CRG0001	Common Requirements Group	SCV CRG - Submerged Combustion Vaporizers (EU01A-R)
CRG0002	Common Requirements Group	FWP CRG - Fire Water Pumps (EU11 A-C)
CRG0003	Common Requirements Group	RWP CRG - River Water Pumps (EU12 A-B)
CRG0004	Common Requirements Group	HOH CRG - Hot Oil Heaters (EU02 A-C)
CRG0005	Common Requirements Group	EG CRG - Emergency Generators (EU05 A-B)
GRP0002	Equipment Group	EU06 - Vaporizers (EU01 A-J) / Hot Oil Heaters (EU 02 A-C) Cap
GRP0004	Equipment Group	EU03 - Fuel Gas Heaters (EU03 A-B) Cap
GRP0005	Equipment Group	EU08 - Hot Water Heaters (EU 08 A-B) Cap
UNF0001	Unit or Facility Wide	99407 - Cameron LNG

**Group Membership:**

ID	Description	Member of Groups
EQT0001	EU01A - Submerged Combustion Vaporizer	CRG0000000001, GRP0000000002
EQT0002	EU01B - Submerged Combustion Vaporizer	CRG0000000001, GRP0000000002
EQT0003	EU01C - Submerged Combustion Vaporizer	CRG0000000001, GRP0000000002
EQT0004	EU01D - Submerged Combustion Vaporizer	CRG0000000001, GRP0000000002
EQT0005	EU01E - Submerged Combustion Vaporizer	CRG0000000001, GRP0000000002
EQT0006	EU01F - Submerged Combustion Vaporizer	CRG0000000001, GRP0000000002
EQT0007	EU01G - Submerged Combustion Vaporizer	CRG0000000001, GRP0000000002
EQT0008	EU01H - Submerged Combustion Vaporizer	CRG0000000001, GRP0000000002
EQT0009	EU01I - Submerged Combustion Vaporizer	CRG0000000001, GRP0000000002
EQT0010	EU01J - Submerged Combustion Vaporizer	CRG0000000004, GRP0000000002
EQT0013	EU02A - Hot Oil Heater	CRG0000000004, GRP0000000002
EQT0014	EU02B - Hot Oil Heater	CRG0000000004, GRP0000000002
EQT0015	EU02C - Hot Oil Heater	GRP0000000004
EQT0016	EU03A - Fuel Gas Heater	CRG0000000005
EQT0020	EU05A - Emergency Generator	GRP0000000004
EQT0021	EU03B - Fuel Gas Heater (Standby)	CRG0000000005
EQT0022	EU05B - Emergency Generator	CRG0000000001
EQT0023	EU01K - Submerged Combustion Vaporizer	CRG0000000001
EQT0024	EU01L - Submerged Combustion Vaporizer	CRG0000000001
EQT0025	EU01M - Submerged Combustion Vaporizer	CRG0000000001
EQT0026	EU01N - Submerged Combustion Vaporizer	CRG0000000001
EQT0027	EU01O - Submerged Combustion Vaporizer	CRG0000000001
EQT0028	EU01P - Submerged Combustion Vaporizer	CRG0000000001
EQT0029	EU01Q - Submerged Combustion Vaporizer	CRG0000000001
EQT0030	EU01R - Submerged Combustion Vaporizer	CRG0000000001
EQT0031	EU08A - Hot Water Heater	GRP0000000005
EQT0032	EU08B - Hot Water Heater	GRP0000000005
EQT0033	EU11A - Emergency Fire Water Pump	CRG0000000002
EQT0034	EU11B - Emergency Fire Water Pump	CRG0000000002

INVENTORIES

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility  
 Activity Number: PER2006002  
 Permit Number: 0560-00184-V3  
 Air - Title V Regular Permit Major Mod

## Group Membership:

ID	Description	Member of Groups
EQT0035	EU11C - Emergency Fire Water Pump	CRG0000000002
EQT0036	EU12A - Emergency River Water Pump	CRG0000000003
EQT0037	EU12B - Emergency River Water Pump	CRG0000000003

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

## Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1490	Recip Nat Gas Comp (Less than 1,000 H.P.)	1	

## SIC Codes:

4922	Natural gas transmission	A199407
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**EMISSION RATES FOR CRITERIA POLLUTANTS**

**AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility**  
**Activity Number: PER20060002**  
**Permit Number: 0560-00184-V3**  
**Air - Title V Regular Permit Major Mod**

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
<b>Cameron LNG Facility</b>															
EQT 0001 EU01A	4.32			6.12			0.91			0.17					0.66
EQT 0002 EU01B	4.32			6.12			0.91			0.17					0.66
EQT 0003 EU01C	4.32			6.12			0.91			0.17					0.66
EQT 0004 EU01D	4.32			6.12			0.91			0.17					0.66
EQT 0005 EU01E	4.32			6.12			0.91			0.17					0.66
EQT 0006 EU01F	4.32			6.12			0.91			0.17					0.66
EQT 0007 EU01G	4.32			6.12			0.91			0.17					0.66
EQT 0008 EU01H	4.32			6.12			0.91			0.17					0.66
EQT 0009 EU01I	4.32			6.12			0.91			0.17					0.66
EQT 0010 EU01J	4.32			6.12			0.91			0.17					0.66
EQT 0013 EU02A	5.43			4.34			0.83			0.15					0.6
EQT 0014 EU02B	5.43			4.34			0.83			0.15					0.6
EQT 0015 EU02C	5.43			4.34			0.83			0.15					0.6
EQT 0016 EU03A	0.20			0.32			0.03			0.005					0.02
EQT 0017 EU04	0.24	0.28	1.06	0.04	0.05	0.19	0.001	0.002	0.01	0.0004	0.0005	0.002	0.003	0.004	0.01
EQT 0020 EU05A	11.62	11.62	0.60	50.69	50.69	2.64	1.22	1.22	0.06	1.34	1.34	0.07	1.35	1.35	0.07
EQT 0021 EU03B		0.20			0.32			0.03			0.005				0.02
EQT 0022 EU05B	11.62	11.62	0.60	50.69	50.69	2.64	1.22	1.22	0.06	1.34	1.34	0.07	1.35	1.35	0.07
EQT 0023 EU01K	4.03	30.86	17.66	5.71	13.23	25.02	0.85	0.91	3.73	0.16	0.17	0.69	0.62	0.66	2.70
EQT 0024 EU01L	4.03	30.86	17.66	5.71	13.23	25.02	0.85	0.91	3.73	0.16	0.17	0.69	0.62	0.66	2.70
EQT 0025 EU01M	4.03	30.86	17.66	5.71	13.23	25.02	0.85	0.91	3.73	0.16	0.17	0.69	0.62	0.66	2.70
EQT 0026 EU01N	4.03	30.86	17.66	5.71	13.23	25.02	0.85	0.91	3.73	0.16	0.17	0.69	0.62	0.66	2.70
EQT 0027 EU01O	4.03	30.86	17.66	5.71	13.23	25.02	0.85	0.91	3.73	0.16	0.17	0.69	0.62	0.66	2.70

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility

Activity Number: PER20060002

Permit Number: 0560-00184-V3

Air - Title V Regular Permit Major Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
<b>Cameron LNG Facility</b>															
EQT 0028 EU01P	4.03	30.86	17.66	5.71	13.23	25.02	0.85	0.91	3.73	0.16	0.17	0.69	0.62	0.66	2.70
EQT 0029 EU01Q	4.03	30.86	17.66	5.71	13.23	25.02	0.85	0.91	3.73	0.16	0.17	0.69	0.62	0.66	2.70
EQT 0030 EU01R	4.03	30.86	17.66	5.71	13.23	25.02	0.85	0.91	3.73	0.16	0.17	0.69	0.62	0.66	2.70
EQT 0031 EU08A	1.31			6.13			1.33			1.33			0.25		0.96
EQT 0032 EU08B	1.31			6.13			1.33			1.33			0.25		0.96
EQT 0033 EU11A	2.14	2.14	0.11	9.92	9.92	0.52	0.70	0.70	0.04	0.20	0.20	0.01	0.80	0.80	0.04
EQT 0034 EU11B	2.14	2.14	0.11	9.92	9.92	0.52	0.70	0.70	0.04	0.20	0.20	0.01	0.80	0.80	0.04
EQT 0035 EU11C	2.14	2.14	0.11	9.92	9.92	0.52	0.70	0.70	0.04	0.20	0.20	0.01	0.80	0.80	0.04
EQT 0036 EU12A	0.98	0.98	0.05	4.53	4.53	0.24	0.32	0.32	0.02	0.09	0.09	0.005	0.37	0.37	0.02
EQT 0037 EU12B	0.98	0.98	0.05	4.53	4.53	0.24	0.32	0.32	0.02	0.09	0.09	0.005	0.37	0.37	0.02
FUG 0001 EU07													0.01	0.01	0.04
GRP 0002 EU06	41.75		182.87	52.64		230.55	7.84		34.36	0.62		6.33	5.68		24.86
GRP 0004 EU03	0.20		0.88	0.32		1.40	0.03		0.13	0.005		0.02	0.02		0.09
GRP 0005 EU08	1.84		8.05	8.58		37.56	1.86		8.16	0.34		1.50	1.35		5.90

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility

Activity Number: PER20060002

Permit Number: 0560-00184-V3

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 EU01A	Benzene		< 0.001	
	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
EQT 0002 EU01B	Benzene		< 0.001	
	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
EQT 0003 EU01C	Benzene		< 0.001	
	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
EQT 0004 EU01D	Benzene		< 0.001	
	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
EQT 0005 EU01E	Benzene		< 0.001	
	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
EQT 0006 EU01F	Benzene		< 0.001	
	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
EQT 0007 EU01G	Benzene		< 0.001	
	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		< 0.001	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility

Activity Number: PER20060002

Permit Number: 0560-00184-V3

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0007 EU01G	n-Hexane		< 0.001	
EQT 0008 EU01H	Benzene		< 0.001	
	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
	Benzene		< 0.001	
EQT 0009 EU01I	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
	Benzene		< 0.001	
EQT 0010 EU01J	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
	Benzene		< 0.001	
EQT 0013 EU02A	Formaldehyde		0.008	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
	Benzene		< 0.001	
EQT 0014 EU02B	Formaldehyde		0.008	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
	Benzene		< 0.001	
EQT 0015 EU02C	Formaldehyde		0.008	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
	Benzene		< 0.001	
EQT 0016 EU03A	Formaldehyde		< 0.001	
	Lead compounds		< 0.001	
	Benzene		< 0.001	

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility

Activity Number: PER20060002

Permit Number: 0560-00184-V3

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0016 EU03A	Toluene		< 0.001	
	n-Hexane		< 0.001	
EQT 0017 EU04	n-Hexane	0.001	0.001	0.005
EQT 0020 EU05A	Benzene	0.012	0.012	0.001
	Formaldehyde	0.001	0.001	< 0.001
	Toluene	0.004	0.004	< 0.001
	Xylene (mixed isomers)	0.003	0.003	< 0.001
EQT 0021 EU03B	Benzene		< 0.001	
	Formaldehyde		< 0.001	
	Lead compounds		< 0.001	
	Toluene		< 0.001	
	n-Hexane		< 0.001	
EQT 0022 EU05B	Benzene	0.012	0.012	0.001
	Formaldehyde	0.001	0.001	< 0.001
	Toluene	0.004	0.004	< 0.001
	Xylene (mixed isomers)	0.003	0.003	< 0.001
EQT 0023 EU01K	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.008	0.009	0.04
	Lead compounds	< 0.001	< 0.001	< 0.001
	Toluene	< 0.001	< 0.001	0.002
	n-Hexane	< 0.001	< 0.001	0.001
EQT 0024 EU01L	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.008	0.009	0.04
	Lead compounds	< 0.001	< 0.001	< 0.001
	Toluene	< 0.001	< 0.001	0.002
	n-Hexane	< 0.001	< 0.001	0.001
EQT 0025 EU01M	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.008	0.009	0.04
	Lead compounds	< 0.001	< 0.001	< 0.001
	Toluene	< 0.001	< 0.001	0.002
	n-Hexane	< 0.001	< 0.001	0.001
EQT 0026 EU01N	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.008	0.009	0.04
	Lead compounds	< 0.001	< 0.001	< 0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility

Activity Number: PER20060002

Permit Number: 0560-00184-V3

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0026 EU01N	Toluene	< 0.001	< 0.001	0.002
	n-Hexane	< 0.001	< 0.001	0.001
EQT 0027 EU01O	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.008	0.009	0.04
	Lead compounds	< 0.001	< 0.001	< 0.001
	Toluene	< 0.001	< 0.001	0.002
	n-Hexane	< 0.001	< 0.001	0.001
EQT 0028 EU01P	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.008	0.009	0.04
	Lead compounds	< 0.001	< 0.001	< 0.001
	Toluene	< 0.001	< 0.001	0.002
	n-Hexane	< 0.001	< 0.001	0.001
EQT 0029 EU01Q	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.008	0.009	0.04
	Lead compounds	< 0.001	< 0.001	< 0.001
	Toluene	< 0.001	< 0.001	0.002
	n-Hexane	< 0.001	< 0.001	0.001
EQT 0030 EU01R	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.008	0.009	0.04
	Lead compounds	< 0.001	< 0.001	< 0.001
	Toluene	< 0.001	< 0.001	0.002
	n-Hexane	< 0.001	< 0.001	0.001
EQT 0031 EU08A	Benzene		< 0.001	
	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		0.001	
	n-Hexane		< 0.001	
EQT 0032 EU08B	Benzene		< 0.001	
	Formaldehyde		0.01	
	Lead compounds		< 0.001	
	Toluene		0.001	
	n-Hexane		< 0.001	
EQT 0033 EU11A	1,3-Butadiene	0.001	0.001	< 0.001
	Benzene	0.002	0.002	< 0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility

Activity Number: PER20060002

Permit Number: 0560-00184-V3

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0033 EU11A	Formaldehyde	0.003	0.003	< 0.001
	Toluene	0.001	0.001	< 0.001
	Xylene (mixed isomers)	0.001	0.001	< 0.001
EQT 0034 EU11B	1,3-Butadiene	0.001	0.001	< 0.001
	Benzene	0.002	0.002	< 0.001
	Formaldehyde	0.003	0.003	< 0.001
	Toluene	0.001	0.001	< 0.001
	Xylene (mixed isomers)	0.001	0.001	< 0.001
EQT 0035 EU11C	1,3-Butadiene	0.001	0.001	< 0.001
	Benzene	0.002	0.002	< 0.001
	Formaldehyde	0.003	0.003	< 0.001
	Toluene	0.001	0.001	< 0.001
	Xylene (mixed isomers)	0.001	0.001	< 0.001
EQT 0036 EU12A	1,3-Butadiene	< 0.001	< 0.001	< 0.001
	Benzene	0.001	0.001	< 0.001
	Formaldehyde	0.001	0.001	< 0.001
	Toluene	< 0.001	< 0.001	< 0.001
	Xylene (mixed isomers)	< 0.001	< 0.001	< 0.001
EQT 0037 EU12B	1,3-Butadiene	< 0.001	< 0.001	< 0.001
	Benzene	0.001	0.001	< 0.001
	Formaldehyde	0.001	0.001	< 0.001
	Toluene	< 0.001	< 0.001	< 0.001
	Xylene (mixed isomers)	< 0.001	< 0.001	< 0.001
GRP 0002 EU06	Benzene	0.002		0.01
	Formaldehyde	0.08		0.34
	Lead compounds	< 0.001		0.002
	Toluene	0.005		0.02
	n-Hexane	1.86		0.01
GRP 0004 EU03	Benzene	< 0.001		< 0.001
	Formaldehyde	< 0.001		0.001
	Lead compounds	< 0.001		< 0.001
	Toluene	< 0.001		< 0.001
	n-Hexane	< 0.001		< 0.001
GRP 0005 EU08	Benzene	< 0.001		0.002

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility

Activity Number: PER20060002

Permit Number: 0560-00184-V3

Air - Title V Regular Permit Major Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
GRP 0005 EU08	Formaldehyde	0.02		0.08
	Lead compounds	< 0.001		0.001
	Toluene	0.001		0.004
	n-Hexane	< 0.001		0.001
UNF 0001 99407	1,3-Butadiene			0.01
	Benzene			0.03
	Formaldehyde			0.75
	Lead compounds			0.01
	Toluene			0.05
	Xylene (mixed isomers)			0.01
	n-Hexane			0.02

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

**SPECIFIC REQUIREMENTS**

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**CRG0001 Submerged Combustion Vaporizers (EU01A-R)**

Group Members: EQT0001 EQT0002 EQT0003 EQT0004 EQT0005 EQT0006 EQT0007 EQT0008 EQT0009 EQT0010 EQT0023 EQT0024 EQT0025 EQT0026 EQT0027 EQT0028 EQT0029 EQT0030

- 1 [LAC 33:III.110].B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None specified
- 2 [LAC 33:III.131].C] Opacity <= 20 percent, except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average
- 3 [LAC 33:III.131].C] Total suspended particulate <= 0.6 lb/MMBTU of heat input. (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None specified
- 4 [LAC 33:III.1513].C] Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513].

**EQT0017 EU04 Flare Pilots**

- 5 [LAC 33:III.110S] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.  
 Which Months: All Year Statistical Basis: None specified

- 6 [LAC 33:III.110S] Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the upset cannot be controlled in six hours.

- 7 [LAC 33:III.110T] Submit report: Due in writing to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.110S. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized. Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

- Flare gas: Heat content > 300 BTU/scf, to ensure destruction of emissions to the flare stack.  
 Which Months: All Year Statistical Basis: None specified  
 Flare gas: Heat content monitored by gas analysis annually, to insure the heat content is above 300 BTU/scf.  
 Which Months: All Year Statistical Basis: None specified  
 Flare gas: Heat content recordkeeping by electronic or hard copy annually.  
 Presence of a flame monitored by heat sensing device continuously.  
 Which Months: All Year Statistical Basis: None specified  
 Presence of a flame recordkeeping by electronic or hard copy daily.

**SPECIFIC REQUIREMENTS**

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility  
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**FUG0001 EU07 Fugitive Emissions**

- 14 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

**GRP0002 Vaporizers (EU01 A-J)/ Hot Oil Heaters (EU 02 A-C) Cap**

Group Members: EQT0001 EQT0002 EQT0003 EQT0004 EQT0005 EQT0006 EQT0007 EQT0008 EQT0009 EQT0010 EQT0013 EQT0014 EQT0015

- 15 [LAC 33:III.501.C.6] Heat Flow rate monitored by fuel flow/firing rate instrument continuously.  
 Which Months: All Year Statistical Basis: Monthly total
- 16 [LAC 33:III.501.C.6] Heat Flow rate recordkeeping by electronic or hard copy monthly. Keep records of the combined total heat input to the vaporizers and hot oil heaters each month, as well as the total heat input to the vaporizers and hot oil heaters for the last twelve months. Make records available for inspection by DEQ personnel.  
 Submit report: Due annually, by the 31st of March. Report the combined totalheat input to the vaporizers and hot oil heaters for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- 17 [LAC 33:III.501.C.6] Total hot oil heaters and vaporizers heat Flow rate <= 9,041 billion BTU/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the combined total heat content exceeds the maximum listed in this specific condition for any twelve consecutive month period.  
 Which Months: All Year Statistical Basis: None specified

**GRP0004 Fuel Gas Heaters (EU03 A-B) Cap**

Group Members: EQT0016 EQT0021

- 19 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None specified
- 20 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 21 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average
- 22 [LAC 33:III.501.C.6] Submit report: Due annually, by the 31st of March. Report the combined totalheat input to the vaporizers and hot oil heaters for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
- 23 [LAC 33:III.501.C.6] Total fuel gas heater Flow rate <= 33,380 MM BTU/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the combined total heat content exceeds the maximum listed in this specific condition for any twelve consecutive month period.  
 Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS****AI ID:** 99407 - Cameron LNG LLC - Cameron LNG Facility**Activity Number:** PER20060002**Permit Number:** 0560-00184-V3**Air - Title V Regular Permit Major Mod****GRP0005 Hot Water Heaters (EU 08 A-B) Cap****Group Members:** EQT0031 EQT0032

- 24 [40 CFR 60.49b(a)] Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)] Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor for each fuel type for each reporting period. Subpart Db. [40 CFR 60.49b(d)] Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.1513. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]. Heat Flow rate monitored by fuel flow/firing rate instrument continuously. Which Months: All Year Statistical Basis: None specified Heat Flow rate recordkeeping by electronic or hard copy monthly. Keep records of the total combined heat input each month, as well as the total heat input for the last twelve months. Make records available for inspection by DEQ personnel. Submit report: Due annually, by the 31st of March. Report the combined total heat input for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division. Total hot water heaters Flow rate <= 2146 billion BTU/yr. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the combined total heat content exceeds the maximum listed in this specific condition for any twelve consecutive month period. Which Months: All Year Statistical Basis: None specified
- 25 [40 CFR 60.49b(d)]
- 26 [40 CFR 60.49b(o)]
- 27 [LAC 33:III.1101.B]
- 28 [LAC 33:III.1311.C]
- 29 [LAC 33:III.1513.C]
- 30 [LAC 33:III.501.C.6]
- 31 [LAC 33:III.501.C.6]
- 32 [LAC 33:III.501.C.6]
- 33 [LAC 33:III.501.C.6]
- 34 [40 CFR 60.4205(b)] Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart III. [40 CFR 60.4205(b)]

**CRG0002 Emergency Fire Water Pumps (EU11 A-C)****Group Members:** EQT0033 EQT0034 EQT0035

- Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart III. [40 CFR 60.4205(b)]

**SPECIFIC REQUIREMENTS**

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**Air - Title V Regular Permit Major Mod**

**CRG0002 Emergency Fire Water Pumps (EU11 A-C)**

- 35 [40 CFR 60.4205(c)] Carbon monoxide <= 2.6 g/BHP-hr (3.5 g/KW-hr). Subpart III. [40 CFR 60.4205(c)]  
 Which Months: All Year Statistical Basis: None specified
- 36 [40 CFR 60.4205(c)] Non-methane hydrocarbons plus Nitrogen oxides <= 7.8 g/BHP-hr (10.5 g/KW-hr). Subpart III. [40 CFR 60.4205(c)]  
 Which Months: All Year Statistical Basis: None specified
- 37 [40 CFR 60.4205(c)] Particulate matter (1.0 microns or less) <= 0.40 g/BHP-hr (0.54 g/KW-hr). Subpart III. [40 CFR 60.4205(c)]  
 Which Months: All Year Statistical Basis: None specified
- 38 [40 CFR 60.4205] Operate and maintain stationary CII/CIE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart III.
- 39 [40 CFR 60.4207(a)] Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]
- 40 [40 CFR 60.4207(b)] Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart III. [40 CFR 60.4207(b)]
- 41 [40 CFR 60.4209(a)] Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]
- 42 [40 CFR 60.4211(a)] Which Months: All Year Statistical Basis: None specified  
 Operate and maintain the stationary CI/internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart III. [40 CFR 60.4211(a)]  
 Demonstrate compliance according to one of the methods specified in 40 CFR 60.4211(b)(1) through (b)(5). Subpart III. [40 CFR 60.4211(b)]  
 Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart III. [40 CFR 60.4211(c)]  
 Conduct an initial performance test to demonstrate initial compliance with the emission standards as specified in 40 CFR 60.4213. Subpart III.
- 43 [40 CFR 60.4211(b)] [40 CFR 60.4211(d)(1)] [40 CFR 60.4211(d)(1)] Equipment/operational data monitored by technically sound method continuously. Subpart III. [40 CFR 60.4211(d)(2)]  
 Which Months: All Year Statistical Basis: None specified
- 44 [40 CFR 60.4211(c)] Submit petition to DEQ for approval of operating parameters to be monitored continuously. Include the information described in 40 CFR 60.4211(d)(2)(i) through (d)(2)(v). Subpart III. [40 CFR 60.4211(d)(2)]  
 Conduct performance tests according to 40 CFR 60.4212(a) through (d). Subpart III.
- 45 [40 CFR 60.4211(d)(1)] Determine compliance with the NOx mass per unit output emission limitation by converting the concentration of NOx in engine exhaust using 40 CFR 60.4213(e), Equation 7. Subpart III. [40 CFR 60.4213(e)]  
 Determine compliance with the PM mass per unit output emission limitation by converting the concentration of PM1 in the engine exhaust using 40 CFR 60.4213(f), Equation 8. Subpart III. [40 CFR 60.4213(f)]  
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

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**CRG0002 Emergency Fire Water Pumps (EU11 A-C)**

- 52 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: Six-minute average  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

**CRG0003 Emergency River Water Pumps (EU12 A-B)**

Group Members: EQT0036 EQT0037

- 54 [40 CFR 60.4205(b)] Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart IIII. [40 CFR 60.4205(b)]  
 Carbon monoxide <= 3.7 g/BHP-hr (5.0 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]  
 Which Months: All Year Statistical Basis: None specified  
 Non-methane hydrocarbons plus Nitrogen oxides <= 7.8 g/BHP-hr (10.5 g/KW-hr). Subpart IIII. [40 CFR 60.4205(c)]  
 Which Months: All Year Statistical Basis: None specified  
 Particulate matter (10 microns or less) <= 0.60 g/BHP-hr 0.80 g/KW-hr. Subpart IIII. [40 CFR 60.4205(c)]  
 Which Months: All Year Statistical Basis: None specified  
 Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart IIII.  
 Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart IIII. [40 CFR 60.4207(a)]  
 Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart IIII. [40 CFR 60.4207(b)]  
 Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart IIII. [40 CFR 60.4209(a)]  
 Which Months: All Year Statistical Basis: None specified  
 Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart IIII. [40 CFR 60.4211(a)]  
 Demonstrate compliance according to one of the methods specified in 40 CFR 60.4211(b)(1) through (b)(5). Subpart IIII. [40 CFR 60.4211(b)]  
 Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart IIII. [40 CFR 60.4211(c)]  
 Conduct an initial performance test to demonstrate initial compliance with the emission standards as specified in 40 CFR 60.4213. Subpart IIII.  
 [40 CFR 60.4211(d)(1)]

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**CRG0003 Emergency River Water Pumps (EU12 A-B)**

- 66 [40 CFR 60.4211(d)(2)] Equipment/operational data monitored by technically sound method continuously. Subpart III. [40 CFR 60.4211(d)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Submit petition to DEQ for approval of operating parameters to be monitored continuously. Include the information described in 40 CFR 60.4211(d)(2)(i) through (d)(2)(v). Subpart III. [40 CFR 60.4211(d)(2)]  
 Conduct performance tests according to 40 CFR 60.4212(a) through (d). Subpart III.  
 Determine compliance with the NO<sub>x</sub> mass per unit output emission limitation by converting the concentration of NO<sub>x</sub> in engine exhaust using 40 CFR 60.4213(e). Equation 7. Subpart III. [40 CFR 60.4213(e)]  
 Determine compliance with the PM mass per unit output emission limitation by converting the concentration of PM in the engine exhaust using 40 CFR 60.4213(f). Equation 8. Subpart III. [40 CFR 60.4213(f)]  
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 67 [40 CFR 60.4211(d)(2)]  
 Which Months: All Year Statistical Basis: Six-minute average  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III, Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 68 [40 CFR 60.4212] Subpart III.
- 69 [40 CFR 60.4213(e)] Subpart III.
- 70 [40 CFR 60.4213(f)] Subpart III.
- 71 [LAC 33:III.1101.B] Subpart III.
- 72 [LAC 33:III.1311.C] Subpart III.
- 73 [LAC 33:III.1513] Subpart III.

**CRG0004 Hot Oil Heaters (EU02 A-C)**

Group Members: EQT0013 EQT0014 EQT0015

- 74 [40 CFR 60.49b(a)] Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]  
 Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]  
 Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]  
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None specified
- 75 [40 CFR 60.49b(d)] Subpart III.
- 76 [40 CFR 60.49b(o)] Subpart III.
- 77 [LAC 33:III.1101.B] Subpart III.

**SPECIFIC REQUIREMENTS**

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**CRG0004 Hot Oil Heaters (EU02 A-C)**

78	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  Which Months: All Year Statistical Basis: Six-minute average Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).  Which Months: All Year Statistical Basis: None specified
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**CRG0005 Emergency Generators (EU05 A-B)**

Group Members: EQR0020 EQR0022

80	[40 CFR 60.4205(b)]	Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart III. [40 CFR 60.4205(b)]
81	[40 CFR 60.4206]	Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart III.
82	[40 CFR 60.4209(a)]	Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]
83	[40 CFR 60.4211(d)(2)]	Which Months: All Year Statistical Basis: None specified Submit petition to DEQ for approval of operating parameters to be monitored continuously. Include the information described in 40 CFR 60.4211(d)(2)(i) through (d)(2)(v). Subpart III. [40 CFR 60.4211(d)(2)]
84	[LAC 33:III.1305]	Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A. 1-7.
85	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  Which Months: All Year Statistical Basis: Six-minute average Total suspended particulate <= 0.6 lb/MMBTU of heat input.  Which Months: All Year Statistical Basis: None specified
86	[LAC 33:III.1313.C]	

**UNF0001 Cameron LNG Facility**

87	[40 CFR 60.4208]	Comply with all applicable deadlines specified in 40 CFR 60.4208(a) through (h). Subpart III.
88	[40 CFR 60]	All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
89	[40 CFR 70.5(a)(1)(iii)]	Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
90	[40 CFR 70.6(a)(3)(iii)(A)]	Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

**SPECIFIC REQUIREMENTS**

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**UNF0001 Cameron LNG Facility**

- 91 [40 CFR 70.6(a)(3)(iii)(B)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 92 [40 CFR 70.6(c)(5)(iv)] Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 93 [LAC 33:III.1103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111
- 94 [LAC 33:III.1109.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 95 [LAC 33:III.1303.B] Outdoor burning of waste material or other combustible material is prohibited.
- 96 [LAC 33:III.2111] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 97 [LAC 33:III.2113.A] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 98 [LAC 33:III.219] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 99 [LAC 33:III.501.C.1] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 100 [LAC 33:III.507.A.1a] Submit permit application: Due prior to construction, reconstruction or modification unless otherwise provided in LAC 33:III.Chapter 5. Submit a timely and complete permit application to the Office of Environmental Services, Air Permits Division, as required in accordance with the procedures in LAC 33:III Chapter 5.
- 101 [LAC 33:III.507.E.4] Any major source as defined in LAC 33:III.502 is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507.
- 102 [LAC 33:III.511] Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration.
- 103 [LAC 33:III.517.A.1] Submit notification: Due to the permitting authority prior to the initiation of any project which will result in emission reductions. Include in the notification a description of the proposed action, a location map, a description of the composition of air contaminants involved, the rate and temperature of the emissions, the identity of the sources involved and the change in emissions. Make any appropriate permit revision reflecting the emission reduction no later than 180 days after commencement of operation and in accordance with the procedures of LAC 33:III Chapter 5.
- 104 [LAC 33:III.517.A.1] Submit permit application: Due prior to commencement of construction, reconstruction, or modification of the source, for new or modified sources. Do not commence construction, reconstruction, or modification of any source required to be permitted under LAC 33:III.Chapter 5 prior to approval by the permitting authority.

**SPECIFIC REQUIREMENTS**

AI ID: 99407 - Cameron LNG LLC - Cameron LNG Facility  
**Activity Number:** PER20060002  
**Permit Number:** 0560-00184-V3  
**Air - Title V Regular Permit Major Mod**

**UNF0001 Cameron LNG Facility**

- 104 [LAC 33:III.517.B.1] Any application form, report, or compliance certification submitted under this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the application are true, accurate, and complete.
- 105 [LAC 33:III.517.C] Submit supplementary facts or corrected information: Due promptly upon becoming aware of failure to submit or incorrect submittal regarding permit applications. In addition, provide information as necessary to address any requirements that become applicable to the source after the date of filing a complete application but prior to release of a proposed permit.
- 106 [LAC 33:III.517.D] Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III.Chapter 5 shall contain the information specified in LAC 33:III.517.D, subparagraphs 1-18.
- 107 [LAC 33:III.517.E] In addition to those elements listed under LAC 33:III.517.D, include in each application pertaining to a Part 70 source the information specified in LAC 33:III.517.E, Subparagraphs 1-8.
- 108 [LAC 33:III.517.G] Submit change of ownership notification in accordance with LAC 33:I.Chapter 19.
- 109 [LAC 33:III.523.A] Submit permit modification application: Due within 45 days of obtaining relevant test results. The permit modification or amendment shall include all information necessary to process the request, and is required if testing demonstrates that the terms and conditions of the existing permit are inappropriate or inaccurate.
- 110 [LAC 33:III.523.B.2] Submit application for temporary exemption for testing: Due prior to test initiation. Submit the information specified in LAC 33:III.517 (with the exception of the data being measured in the test). Conduct testing for the minimum duration consistent with obtaining valid results.
- 111 [LAC 33:III.523.B.3] Submit test results: Due within 30 days of test completion to the administrative authority. The report details the conditions that were found to exist during a temporary exemption for testing. State if there is to be no permanent change in emissions from pretest conditions.
- 112 [LAC 33:III.5611.A] Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.
- 113 [LAC 33:III.5611.B] During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.
- 114 [LAC 33:III.919.D] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.